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Sivan Leviyang* (sr286@georgetown.edu). *HIV Infection and Random Partitions.*

In this talk I will describe a connection between theoretical work involving random partitions and the population genetics of HIV infection. During HIV infection, attack by the immune system through CTLs produces HIV escape dynamics. Understanding the impact of such escape dynamics on the genetic diversity of the infecting HIV population requires the construction of genealogies. The construction of such genealogies can be reduced to the characterization of random partitions. (Received January 29, 2012)